

### CLAIMS

I claim:

1. A scaffold system comprising at least one first support and at least one second support and at least one locking and securing device for  
5 removably securing and locking the first support to the second support, the locking and securing device having a means for securing the first support to the second support, the securing means being movably attached to the first support and being movable between a secured position and an unsecured position with respect to the second support by using a force at a substantially  
10 center point of the securing means; and a means for locking the securing means to the first when the securing means is in the secured position in the second support, the locking means being integrally formed with the securing means;

the securing means and the locking means being rotatably  
15 moveable about a longitudinal axis extending through the securing means and being longitudinally moveable along the longitudinal axis thereby allowing the securing means to be moveable between the secured position and the unsecured position and thereby allowing the locking means to be moveable between a locked position and an unlocked position.

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2. The scaffold system of claim 1, wherein the securing means includes a securing pin and a handle positioned in a spaced apart relationship to and at substantially the center point of the securing pin.

25 3. The scaffold system of claim 2, wherein the securing pin is positioned at an angle with respect to the vertical support.

4. The scaffold system of claim 2, wherein the handle is integrally formed with the locking means.

5. The scaffold system of claim 4, wherein the locking means includes an engaging means for engagement with the first support when the locking means is in the locked position.

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6. The scaffold system of claim 5, wherein the first support is operatively connected to an engagement means for engagement with the engaging means of the locking means.

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7. The scaffold system of claim 6, wherein the securing means is positioned at an angle with respect to the engagement means and extends through an opening in the engagement means.

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8. The scaffold system of claim 1, wherein the securing means further includes at least one biasing means for holding the securing means in the secured position.

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9. The scaffold system of claim 8, wherein the securing means further includes a second further biasing means for holding the locking means in the locked position.

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10. The scaffold system of claim 9, wherein the first biasing means and the second biasing means are coaxially positioned on the securing means.

11. The scaffold system of claim 10, wherein the first and second biasing means are spaced apart from one another by a rivet pin extending radially through the securing means.

12. The scaffold system of claim 3, wherein the rivet pin is positioned in the securing pin at substantially a midpoint along a longitudinal length of the securing means.

5 13. The scaffold system of claim 2, wherein the handle and the securing pin are at an angle with respect to each other and are in the same plane with respect to each other.

10 14. The scaffold system of claim 13, wherein the locking means includes an engaging means which is in a spaced apart relationship to the handle and is positioned at an angle to the handle, the engaging means and the handle each defining planes that are perpendicular to each other.

15 15. The scaffold system of claim 14, wherein the horizontal support defines an engagement member for engagement with the locking means when the locking means is in the locked position.

20 16. The scaffold system of 15, wherein the engagement member is operatively connected to the first support.

17. The scaffold system of claim 1, wherein the second support includes at least one opening for receiving the securing means when the securing means is in the secured position.

25 18. The scaffold system of claim 17, wherein the first support includes a channel member for receiving a portion of the second support when the first support is secured to the second support.

19. The scaffold system of claim 18, wherein the channel member defines at least one opening for receiving a portion of the securing means.

20. The scaffold system of claim 19, further including at least one  
5 guide rail socket for receiving one end of a guide rail, the guide rail socket being adjacent and substantially parallel to the channel member.

21. The scaffold system of claim 21, wherein the guide rail socket  
10 defines first and second openings that are in opposing sides of the guide rail socket for receiving a portion of the securing means.

22. A scaffold system comprising at least one first support and at  
least one second support and at least one locking and securing device for  
removably securing and locking the first support to the second support, the  
15 locking and securing device comprising a securing mechanism, the securing mechanism including a longitudinally extending securing pin and a handle positioned in a spaced apart and substantially centered relationship with respect to the securing pin, the securing mechanism further including a locking member positioned adjacent the handle in a spaced apart relationship  
20 to the securing pin;

the securing pin being moveable between a secured position and an unsecured position and the locking member being moveable between a locked position and an unlocked position.

23. The scaffold system of claim 22, wherein the handle is  
25 positioned in a spaced apart and at substantially a center point of the securing pin.

24. The scaffold system of claim 23, wherein the securing pin is positioned at an angle with respect to the second support.

25. The scaffold system of claim 24, wherein the handle is integrally  
5 formed with the locking member.

26. The scaffold system of claim 25, wherein the locking member includes an engaging section for engagement with the first support when the locking means is in the locked position.  
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27. The scaffold system of claim 26, wherein the first support is operatively connected to an engagement member for engagement with the engaging section of the locking member.

28. The scaffold system of claim 27, wherein the securing pin is positioned at an angle with respect to the engagement member and extends through an opening in the engagement member.  
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29. The scaffold system of claim 22, wherein the securing mechanism further includes at least one first biasing member coaxially positioned on one end of the securing mechanism.  
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30. The scaffold system of claim 25, wherein the securing mechanism further includes a second biasing member coaxially positioned on one end of the securing pin in a spaced apart relationship to the first biasing spring member.  
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31. The scaffold system of claim 30, wherein the first biasing member and the second biasing member are coaxially positioned on the securing pin.

5           32. The scaffold system of claim 31, wherein the first and second biasing members are spaced apart from one another by a rivet pin extending radially through the securing pins.

10           33. The scaffold system of claim 32, wherein the rivet pin is positioned at substantially a midpoint along the longitudinal length of the securing pin.

15           34. A scaffold system comprising at least one first support and at least one second support and a locking and securing device for removably securing the first support to the second support, the locking and securing device comprising an engagement member and a securing mechanism having a securing pin extending in an axial direction through the engagement member,

20           the securing pin having a radially extending opening extending therethrough for receiving a rivet pin,

            a first biasing member coaxially positioned on the securing pin between the rivet pin and a first end of the securing pin,

            a second biasing member coaxially positioned on the securing pin between the rivet pin and a second end of the securing pin,

25           a handle operatively connected to the second end of the securing pin and in a substantially centered relationship with respect to the securing pin, and,

            a locking member integrally formed with the handle.

35. The scaffold system of claim 34, wherein the securing pin is positioned at an angle with respect to the engagement means.

5 36. The scaffold system of claim 34, wherein the locking member includes an engaging section having a distal end for engagement with the engagement member when the locking member is in a locked position.

10 37. The scaffold system of claim 36, wherein the engagement member is positioned at an angle with respect to the securing pin.

38. The scaffold system of claim 34, wherein the rivet pin is positioned in the securing pin at substantially a midpoint along a longitudinal length of the securing pin.

15 39. The scaffold system of claim 34, wherein the handle and the securing pin are at an angle with respect to each other and are in the same plane with respect to each other.

20 40. The scaffold system of claim 39, wherein the locking member includes an engaging section having a distal end which is in a spaced apart relationship to the handle and is positioned at an angle to the handle, the distal end and the handle each defining planes that are perpendicular to each other.